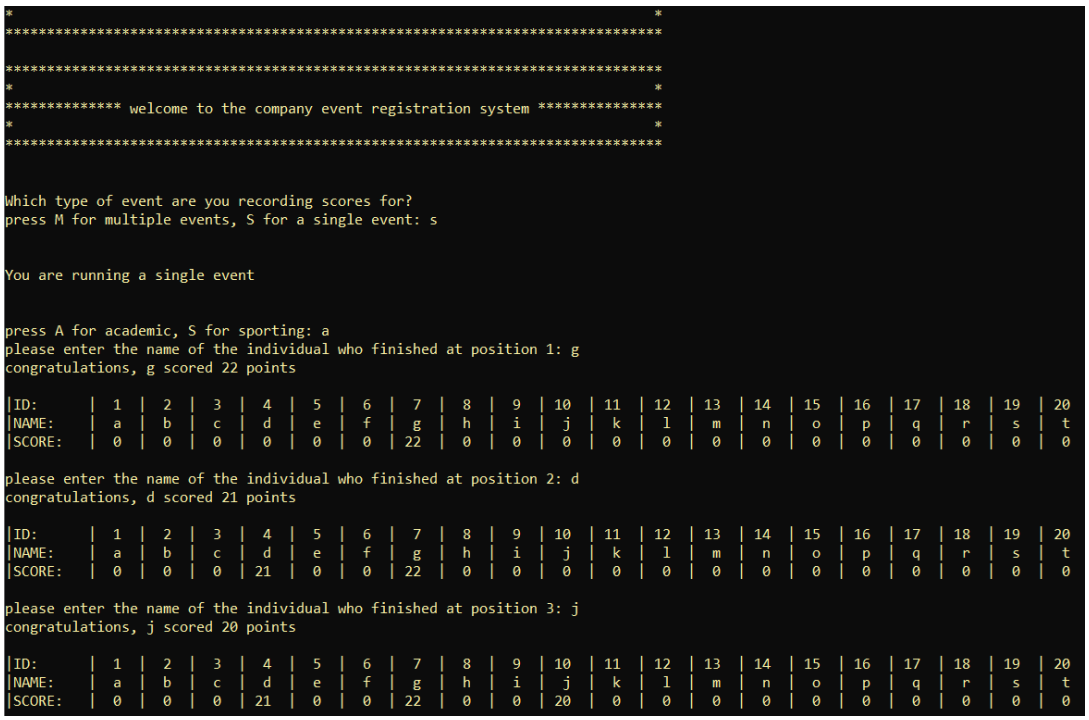
Sample Program Code and Screenshot – VB.NET Solution

Included are a screenshot and function example of the running program. You will have full access to the entire codebase and technical documentation after purchase.

Sample Screenshot

Here is a screenshot of the input for the events. All 20 individual have been pre-registered and the code is now putting different scores in the correct location according to where an individual finishes.


********** welcome to the company event registration system **********
Which type of event are you recording scores for?
press M for multiple events, S for a single event: s
You are running a single event
press A for academic, S for sporting: a
please enter the name of the individual who finished at position 1: g
congratulations, g scored 22 points
please enter the name of the individual who finished at position 2: d
congratulations, d scored 21 points
please enter the name of the individual who finished at position 3: j
congratulations, j scored 20 points

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Sample Code – VB.NET Solution

The following code is a fragment of the entire available code for the solution, all fully commented to aid understanding. This function is the code for running a single event for an individual.

```
' <summary>
        ' function for running a single event for an individual.
        ' the function works out if the event to be scored Is either
academic Or sporting
        ' the function will simply loop through the individual score array
adding the scores as necessary
        ' a simple lookup function could have been added to add the score
for a specific individual, but this
        ' would form part of the interview process with stakeholders.
        ' </summary>
        Public Sub RunSingleIndividualEvent(eventType As String)
            Dim individualName As String = ""
            Dim inputChoice As String = ""
            Dim validInput As Boolean
            Dim counter As Integer = 0

            'loop through the array starting at column index 0
            For i As Integer = 0 To 19
                'as we are looping multiple times, we must reset this
validation flag to false
                'otherwise the first time it Is set to TRUE it'll never
reset.
                validInput = False

                'get the indivuduals name from row 1
                'individualName = individualScores(1, i)

                'Console.WriteLine($"{vbLf}Is this an academic or sporting
score for {individualName}: ")


                Console.Write($"please enter the name of the individual who
finished at position {i + 1}: ")
                individualName = Console.ReadLine().ToLower()

                For j As Integer = 1 To 20

                    Dim temp As String = individualScores(1, j)

                    If individualName = temp Then
                        If eventType = "a" Then
                            'get the current score out of the array
                            'convert it from an string to an integer
                            Dim currentScore As Integer =
Integer.Parse(individualScores(2, j))

                            'add the academic score
                            Dim newScore As Integer = currentScore +
(individualAcademicEventScore - counter)

                            Console.WriteLine($"congratulations,
{individualName} scored {individualAcademicEventScore - counter} points")
```

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```
                            'convert the number back to a string, And add
it into row 3 of the 2D array where the scores are to be stored
                            individualScores(2, j) = newScore.ToString()
                        Else
                            'get the current score out of the array
                            'convert it from an string to an integer
                            Dim currentScore As Integer =
Integer.Parse(individualScores(2, j))

                            'add the set sporting score
                            Dim newScore As Integer = currentScore +
(individualSportingEventScore - counter)

                            Console.WriteLine($"congratulations,
{individualName} scored {individualSportingEventScore - counter} points")

                            'convert the number back to a string, And add
it into row 3 of the 2D array where the scores are to be stored
                            individualScores(2, j) = newScore.ToString()
                        End If

                        counter = counter + 1
                        Exit For

                    End If


                Next

                Console.WriteLine()
                'show the scores table after each score has been added.
                displayIndividualScoresTable()
                Console.WriteLine()

            Next

            Console.Write(vbLf & vbLf & "press any key to continue.....")
            Console.ReadLine()
        End Sub
```

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